APPARATUS AND METHOD FOR SIGNAL PRCOESSING OF FORMAT CONVERSION AND COMBINATION OF VIDEO SIGNALS

Abstract

A method is disclosed for converting and mixing a plurality of video data without data loss. The video data have a plurality of sampling formats, and the sampling formats at least comprise a high chrominance-sampling-rate format and a low chrominance-sampling-rate format. The method includes receiving a first video data in the low chrominance-sampling-rate format and a second video data in the high chrominance-sampling-rate format, converting the first video data in the low chrominance-sampling-rate format into a first video data in the high chrominance-sampling-rate format, and mixing the first video data in the high chrominance-sampling-rate format with the second video data in the high chrominance-sampling-rate format for generating a mixed video data in the high chrominance-sampling-rate format.